Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	14004	esterase\$1	LICDAT	AND		2005/04/21 15:36
12	262	aquifex or pyrophilus	US-PGPUB; USPAT	AND	OFF	2005/04/21 15:37
(13)		1 same 2	US-PGPUB; USPAT	AND	OFF	

PGPUB-DOCUMENT-NUMBER: 20030064491

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030064491 A1

TITLE:

Genes and proteins involved in the biosynthesis of

enediyne ring structures

PUBLICATION-DATE:

April 3, 2003

INVENTOR-INFORMATION:

NAME CITY

COUNTRY RULE-47 STATE

CA

Farnet, Chris M. Staffa, Alfredo

Outremont Saint-Laurent

CA CA

Zazopoulos, Emmanuel

Montreal

APPL-NO:

10/ 152886

DATE FILED: May 21, 2002

RELATED-US-APPL-DATA:

non-provisional-of-provisional 60291959 20010521 US

non-provisional-of-provisional 60334604 20011203 US

US-CL-CURRENT: 435/183, 435/320.1, 435/325, 435/69.1, 435/76, 536/23.2

ABSTRACT:

Five protein families cooperate to form the warhead structure that characterizes enediyne compounds, both chromoprotein enediynes and non-chromoprotein enedivnes The protein families include a polyketide synthase and thioesterase protein which form a polyketide synthase catalytic complex involved in warhead formation in enedignes. Genes encoding a member of each of the five protein families are found in all enedivne biosynthetic loci. The genes and proteins may be used in genetic engineering applications to design new enediyne compounds and in methods to identify new enediyne biosynthetic loci.

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims benefit under 35 USC .sctn. 119 of provisional applications U.S. Ser. No. 60/291,959 filed on May 21, 2001 and U.S. Ser. No. 60/334,604 filed on Dec. 3, 2001 which are hereby incorporated by reference in their entirety for all purposes.

	KWIC	
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Detail Description Table CWU - DETL (11):

11TABLE 10 135E locus GenBank homology proposed function of Family #aa Accession, #aa probability identity similarity GenBank match PKSE 1933 T37056, 2082aa 1e-65 282/909 (31.02%) 365/909 (40.15%) multi-domain beta keto-acyl synthase, Streptomyces coelicolor BAB69208 1, 2365aa 3e-84 285/925 (30.81%) 366/925 (39.57%) polyketide synthase. Streptomyces avermitilis T30937, 1053aa 2e-69 246/907 (27.12%) 356/907 (39.25%) glycolipid synthase,

Nostoc punctiforme TEBC 154 NP_249659 1, 146aa 2e-07 41/132 (31.06%) 63/132 (47.73%) hypothetical protein, Pseudomonas aeruginosa AAD49752 1, 148aa 2e-06 40/132 (30.3%) 62/132 (46.97%) orf1, Pseudomonas aeruginosa NP_214031 1, 128aa 5e-04 35/127 (27.56%) 60/127 (47.24%) hypothetical protein, Aquifex aeolicus UNBL 323 NO HOMOLOG UNBV 655 CAC44518 1, 706aa 9e-04 41/135 (30.37%) 59/135 (43.7%) putative secreted esterase, Streptomyces coelicolor UNBU 346 NP_486037 1, 300aa 4e-09 52/191 (27.23%) 87/191 (45.55%) hypothetical protein, Nostoc sp NP_440874 1, 285aa 9e-06 47/197 (23.86%) 89/197 (45.18%) hypothetical protein, Synechocystis sp

FILE 'HOME' ENTERED AT 15:38:59 ON 21 APR 2005

=> fil .bec

COST IN U.S. DOLLARS SINCE FILE TOTAL

FULL ESTIMATED COST ENTRY SESSION 0.21 0.21

FILES 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 15:39:12 ON 21 APR 2005 ALL COPYRIGHTS AND RESTRICTIONS APPLY. SEE HELP USAGETERMS FOR DETAILS.

11 FILES IN THE FILE LIST

=> s esterase#

FILE 'MEDLINE'

L1 23372 ESTERASE#

FILE 'SCISEARCH'

L2 14330 ESTERASE#

FILE 'LIFESCI'

L3 5931 ESTERASE#

FILE 'BIOTECHDS'

L4 2381 ESTERASE#

FILE 'BIOSIS'

L5 44941 ESTERASE#

FILE 'EMBASE'

L6 15001 ESTERASE#

FILE 'HCAPLUS'

L7 34639 ESTERASE#

FILE 'NTIS'

L8 301 ESTERASE#

FILE 'ESBIOBASE'

L9 4085 ESTERASE#

FILE 'BIOTECHNO'

L10 4672 ESTERASE#

FILE 'WPIDS'

L11 2694 ESTERASE#

TOTAL FOR ALL FILES

L12 152347 ESTERASE#

=> s aquifex or pyrophilus ·

FILE 'MEDLINE'

214 AQUIFEX

34 PYROPHILUS

L13 214 AQUIFEX OR PYROPHILUS

FILE 'SCISEARCH'

283 AQUIFEX

89 PYROPHILUS

L14 283 AQUIFEX OR PYROPHILUS

FILE 'LIFESCI'

143 AQUIFEX

28 PYROPHILUS

L15 143 AQUIFEX OR PYROPHILUS

FILE 'BIOTECHDS'

38 AQUIFEX

8 PYROPHILUS

L16 40 AQUIFEX OR PYROPHILUS

FILE 'BIOSIS'

283 AQUIFEX

54 PYROPHILUS

L17 287 AQUIFEX OR PYROPHILUS

FILE 'EMBASE'

, 206 AQUIFEX

32 PYROPHILUS

L18 206 AQUIFEX OR PYROPHILUS

FILE 'HCAPLUS'

388 AQUIFEX

61 PYROPHILUS

L19 388 AQUIFEX OR PYROPHILUS

FILE 'NTIS'

1 AOUIFEX

1 PYROPHILUS

L20 1 AQUIFEX OR PYROPHILUS

FILE 'ESBIOBASE'

186 AQUIFEX

29 PYROPHILUS

L21 186 AQUIFEX OR PYROPHILUS

FILE 'BIOTECHNO'

141 AQUIFEX

29 PYROPHILUS

L22 141 AQUIFEX OR PYROPHILUS

FILE 'WPIDS'

33 AQUIFEX

8 PYROPHILUS

L23 34 AQUIFEX OR PYROPHILUS

TOTAL FOR ALL FILES

L24 1923 AQUIFEX OR PYROPHILUS

=> s 112 and 124

FILE 'MEDLINE'

L25 1 L1 AND L13

FILE 'SCISEARCH'

L26 0 L2 AND L14

FILE 'LIFESCI'

L27 0 L3 AND L15

FILE 'BIOTECHDS'

L28 2 L4 AND L16

FILE 'BIOSIS'

L29 0 L5 AND L17

FILE 'EMBASE'

L30 0 L6 AND L18

FILE 'HCAPLUS'

L31 4 L7 AND L19

FILE 'NTIS'

L32 0 L8 AND L20

FILE 'ESBIOBASE'

L33 0 L9 AND L21

FILE 'BIOTECHNO'

L34 0 L10 AND L22

FILE 'WPIDS'

L35 1 L11 AND L23

TOTAL FOR ALL FILES

L36 8 L12 AND L24

=> s 124(8a)gene/q

FILE 'MEDLINE'

L37 42 L13(8A)GENE/Q

FILE 'SCISEARCH'

L38 46 L14 (8A) GENE/Q

FILE 'LIFESCI'

L39 31 L15(8A)GENE/O

FILE 'BIOTECHDS'

L40 14 L16(8A)GENE/Q

FILE 'BIOSIS'

L41 59 L17(8A)GENE/Q

FILE 'EMBASE'

L42 33 L18(8A)GENE/Q

FILE 'HCAPLUS'

L43 130 L19(8A)GENE/Q

FILE 'NTIS'

L44 0 L20(8A)GENE/Q

FILE 'ESBIOBASE'

L45 35 L21(8A)GENE/Q

FILE 'BIOTECHNO'

L46 31 L22(8A)GENE/Q

FILE 'WPIDS'

L47 8 L23 (8A) GENE/Q

TOTAL FOR ALL FILES

L48 429 L24(8A) GENE/Q

=> s 148 not 2002-2005/py

FILE 'MEDLINE'

1863162 2002-2005/PY

L49 25 L37 NOT 2002-2005/PY

FILE 'SCISEARCH'

3437504 2002-2005/PY

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26 L38 NOT 2002-2005/PY
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306945 2002-2005/PY

L51 21 L39 NOT 2002-2005/PY

FILE 'BIOTECHDS'

79449 2002-2005/PY

6 L40 NOT 2002-2005/PY

FILE 'BIOSIS'

1589919 2002-2005/PY

34 L41 NOT 2002-2005/PY

FILE 'EMBASE'

1578093 2002-2005/PY

20 L42 NOT 2002-2005/PY

FILE 'HCAPLUS'

3534325 2002-2005/PY

L55 63 L43 NOT 2002-2005/PY

FILE 'NTIS'

41472 2002-2005/PY

L56 0 L44 NOT 2002-2005/PY

FILE 'ESBIOBASE'

958564 2002-2005/PY

L57 20 L45 NOT 2002-2005/PY

FILE 'BIOTECHNO'

244553 2002-2005/PY

22 L46 NOT 2002-2005/PY L58

FILE 'WPIDS'

3316755 2002-2005/PY

L59 1 L47 NOT 2002-2005/PY

TOTAL FOR ALL FILES

L60 238 L48 NOT 2002-2005/PY

=> dup rem 160

PROCESSING COMPLETED FOR L60

L61 72 DUP REM L60 (166 DUPLICATES REMOVED)

=> d tot

ANSWER 1 OF 72 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN L61

TT Aquifex pyrophilus derived thermostable

> pyrophosphatase (ApyPpase) and coding gene used for genetic engineering and diagnosis of hereditary diseases;

vector plasmid pAPYP-mediated recombinant protein gene transfer and expression in Escherichia coli for use in disease diagnosis

ΑU HUH H S; KWON S T

AN 2002-14424 BIOTECHDS

ΡI KR 2001097348 8 Nov 2001

ANSWER 2 OF 72 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN L61

ΤI Gene encoding heat resistant alanine racemase of Aquifex pyrophilus, useful in medicine and food

> enzyme production, vector expression in bacterium, fermentation and incubation for food industry and medicine

Y00 Y G ΑU

L50

FILE 'LIFESCI'

L52

L53

L54

- AN 2002-08972 BIOTECHDS
- PI KR 2001083959 6 Sep 2001
- L61 ANSWER 3 OF 72 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
- TI Thermostable DNA polymerase gene isolated from aquifex pyrophilus and its amino acid sequence;

enzyme gene production and mofidication from bacterium

- AU CHOI J J; KWON S T
- AN 2002-16315 BIOTECHDS
- PI KR 2001113228 28 Dec 2001
- L61 ANSWER 4 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Heat-resistant glutamate racemase and gene coding the same
- SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
- IN Han, Ye Seon; Kim, Sang Suk; Kim, Seong Ho; Yoo, Yeon Gyu
- AN 2004:877470 HCAPLUS
- DN 142:50203

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
		·			
PΙ	KR 2001036363	Α	20010507	KR 1999-43339	19991008

- L61 ANSWER 5 OF 72 MEDLINE on STN
- TI Cytochromes c555 from the hyperthermophilic bacterium Aquifex aeolicus. 2. Heterologous production of soluble cytochrome c555s and investigation of the role of methionine residues.

DUPLICATE 3

- SO Biochemistry, (2001 Nov 13) 40 (45) 13690-8. Journal code: 0370623. ISSN: 0006-2960.
- AU Aubert C; Guerlesquin F; Bianco P; Leroy G; Tron P; Stetter K O; Bruschi M
- AN 2001644001 MEDLINE
- L61 ANSWER 6 OF 72 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 4
- TI Cytochromes c555 from the hyperthermophilic bacterium Aquifex aeolicus (VF5). 1. Characterization of two highly homologous, soluble and membranous, cytochromes c555.
- SO Biochemistry, (November 13, 2001) Vol. 40, No. 45, pp. 13681-13689. print. CODEN: BICHAW. ISSN: 0006-2960.
- AU Baymann, Frauke; Tron, Pascale; Schoepp-Cothenet, Barbara [Reprint author]; Aubert, Corinne; Bianco, Pierre; Stetter, Karl-Otto; Nitschke, Wolfgang; Schutz, Michael
- AN 2001:567239 BIOSIS
- L61 ANSWER 7 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Genes linked by fusion events are generally of the same functional category: a systematic analysis of 30 microbial genomes
- SO Proceedings of the National Academy of Sciences of the United States of America (2001), 98(14), 7940-7945 CODEN: PNASA6; ISSN: 0027-8424
- AU Yanai, Itai; Derti, Adnan; DeLisi, Charles
- AN 2001:526462 HCAPLUS
- DN 136:178666
- L61 ANSWER 8 OF 72 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN Differential effects of replacing Escherichia coli ribosomal protein L27 with its homologue from Aquifex aeolicus.
- SO Journal of Bacteriology, (November, 2001) Vol. 183, No. 22, pp. 6565-6572. print.
 - CODEN: JOBAAY. ISSN: 0021-9193.
- AU Maguire, Bruce A.; Manuilov, Anton V.; Zimmermann, Robert A. [Reprint author]
- AN 2001:540050 BIOSIS
- L61 ANSWER 9 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN

- TI Comprehensive comparison between locations of orthologous genes on archaeal and bacterial genomes
- SO Bioinformatics (2001), 17(9), 791-802 CODEN: BOINFP; ISSN: 1367-4803
- AU Horimoto, Katsuhisa; Fukuchi, Satoshi; Mori, Kentaro
- AN 2001:813196 HCAPLUS
- DN 136:396906
- L61 ANSWER 10 OF 72 MEDLINE on STN DUPLICATE 5
- TI Identification and cloning of partial mbh2 gene cluster of hyperthermophile Aquifex pyrophilus.
- SO Wei sheng wu xue bao = Acta microbiologica Sinica, (2001 Dec) 41 (6) 674-9.
 - Journal code: 21610860R. ISSN: 0001-6209.
- AU Lu J; Rakhely G; Kovacs K L; Xiao C; Zhou P
- AN 2003044208 MEDLINE
- L61 ANSWER 11 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Identification of novel essential Escherichia coli genes conserved among pathogenic bacteria
- SO Journal of Molecular Microbiology and Biotechnology (2001), 3(3), 483-489 CODEN: JMMBFF; ISSN: 1464-1801
- AU Freiberg, Christoph; Wieland, Bernd; Spaltmann, Frank; Ehlert, Kerstin; Brotz, Heike; Labischinski, Harald
- AN 2001:348500 HCAPLUS
- DN 135:104920
- L61 ANSWER 12 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Phylogenetic analyses of two "archaeal" genes in Thermotoga maritima reveal multiple transfers between archaea and bacteria
- SO Molecular Biology and Evolution (2001), 18(3), 362-375 CODEN: MBEVEO; ISSN: 0737-4038
- AU Nesbo, Camilla L.; L'Haridon, Stephane; Stetter, Karl O.; Doolittle, W. Ford
- AN 2001:186845 HCAPLUS
- DN 135:283864
- L61 ANSWER 13 OF 72 MEDLINE on STN DUPLICATE 6
- TI Prokaryotic structural maintenance of chromosomes (SMC) proteins: distribution, phylogeny, and comparison with MukBs and additional prokaryotic and eukaryotic coiled-coil proteins.
- SO Gene, (2001 Oct 31) 278 (1-2) 253-64. Journal code: 7706761. ISSN: 0378-1119.
- AU Soppa J
- AN 2001654625 MEDLINE
- L61 ANSWER 14 OF 72 MEDLINE on STN DUPLICATE 7
- TI Expression in Escherichia coli of the thermostable inorganic pyrophosphatase from the Aquifex aeolicus and purification and characterization of the recombinant enzyme.
- SO Protein expression and purification, (2001 Nov) 23 (2) 242-8. Journal code: 9101496. ISSN: 1046-5928.
- AU Hoe H S; Kim H K; Kwon S T
- AN 2001642891 MEDLINE
- L61 ANSWER 15 OF 72 MEDLINE on STN DUPLICATE 8
- TI Molecular cloning and characterization of thermostable DNA ligase from Aquifex pyrophilus, a hyperthermophilic bacterium.
- SO Extremophiles: life under extreme conditions, (2001 Jun) 5 (3) 161-8. Journal code: 9706854. ISSN: 1431-0651.
- AU Lim J H; Choi J; Han S J; Kim S H; Hwang H Z; Jin D K; Ahn B Y; Han Y S
- AN 2002019598 MEDLINE
- L61 ANSWER 16 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN

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Genome of Aquifex aeolicus
TI
SO
     Methods in Enzymology (2001), 330 (Hyperthermophilic Enzymes, Part A),
      158-169
      CODEN: MENZAU; ISSN: 0076-6879
     Swanson, Ronald V.
ΑU
AN
      2001:125818 HCAPLUS
DN
     135:314007
L61 ANSWER 17 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
ΤI
     Expression and characterization of the terminal heme synthetic enzymes
      from the hyperthermophile Aquifex aeolicus
     FEMS Microbiology Letters (2001), 202(1), 115-119
SO
     CODEN: FMLED7; ISSN: 0378-1097
     Wang, K.-F.; Dailey, T. A.; Dailey, H. A.
ΑU
AN
     2001:591698 HCAPLUS
DN
     136:50095
                          MEDLINE on STN
L61 ANSWER 18 OF 72
                                                               DUPLICATE 9
     Purification and properties of Aquifex aeolicus DNA polymerase expressed
      in Escherichia coli.
     FEMS microbiology letters, (2001 Jul 10) 201 (1) 73-7.
SO
     Journal code: 7705721. ISSN: 0378-1097.
AU
     Chang J R; Choi J J; Kim H K; Kwon S T
AN
     2001390998
                      MEDLINE
     ANSWER 19 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
L61
     Evolution of gene order conservation in prokaryotes
TI
SO
     GenomeBiology [online computer file] (2001), 2(6), No pp. given
      CODEN: GNBLFW; ISSN: 1465-6914
     URL: http://genomebiology.com/2001/2/6/research/0020
ΑU
     Tamames, Javier
     2002:227287 HCAPLUS
AN
DN
     137:213424
     ANSWER 20 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
L61
     Nucleic acid probe-based diagnostic assays for prokaryotic and eukaryotic
ТT
     organisms using gene ssrA and its tmRNA transcript as targets
SO
     PCT Int. Appl., 221 pp.
     CODEN: PIXXD2
IN
     Barry, Thomas Gerard; Smith, Terence James
     2000:824445 HCAPLUS
AN
DN
     134:13982
     PATENT NO. KIND DATE APPLICATION NO.
     PATENT NO.
                                                                         DATE
                                                 -----
                                    20001123 WO 2000-IE66
                                                                           20000515
PΙ
     WO 2000070086 A1
     W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG
     ANSWER 21 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
L61
     Cloning and sequence of Aquifex pyrophilus
     superoxide dismutase gene, expression of the enzyme in
     Escherichia coli and its pharmaceutical applications
SO
     U.S., 17 pp.
     CODEN: USXXAM
     Han, Ye Sun; Yu, Yeon Gyu; Kim, Sung Hou; Lim, Jae Hwan; Ryu, Jae Ryeon;
ΙN
     Choi, In Geol
AN
     2000:157663 HCAPLUS
DN
     132:204860
     PATENT NO.
                           KIND
                                    DATE
                                                APPLICATION NO.
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A US 6033889 PΙ 20000307 US 1998-8303 19980116 B1 KR 183362 19990401 KR 1997-1140 19970116 L61 ANSWER 22 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN

- Cyclic glucan synthesis with thermostable branching enzyme for use in food TIproduction
- Jpn. Kokai Tokkyo Koho, 12 pp. SO CODEN: JKXXAF
- Takada, Hiroki; Takabane, Takeshi; Kuriki, Takashi; Okada, Shiqetaka IN
- AN 2000:817136 HCAPLUS
- 133:331188 DN

PATENT NO. KIND DATE APPLICATION NO. DATE ---------JP 2000316581 A2 20001121 JP 1999-130833 PΤ 19990512

- L61 ANSWER 23 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- Protein and cDNA sequences for a human ADP- ribosylglycohydrolase protein ARGHase, its expression and use
- SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 21 pp. CODEN: CNXXEV
- Li, Nenggan; Qian, Binzhi; Gao, Xin; Xiao, Huasheng; Chen, Zhu; Han, IN Zequanq
- 2001:174517 HCAPLUS AN
- 134:203430 DN

KIND DATE APPLICATION NO. DATE PATENT NO. -------------------20000830 CN 2000-111778 CN 1264741 PΙ Α 20000302

- L61 ANSWER 24 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- Antibacterial agents that target lipid A biosynthesis in gram-negative bacteria: inhibition of diverse UDP-3-O-(R-3-hydroxymyristoyl)-Nacetylglucosamine deacetylases by substrate analogs containing zinc binding motifs
- Journal of Biological Chemistry (2000), 275(15), 11002-11009 SO CODEN: JBCHA3; ISSN: 0021-9258
- Jackman, Jane E.; Fierke, Carol A.; Tumey, L. Nathan; Pirrung, Michael; ΑU Uchiyama, Taketo; Tahir, S. Hasan; Hindsgaul, Ole; Raetz, Christian R. H.
- AN 2000:270240 HCAPLUS
- DN 133:27932
- L61 ANSWER 25 OF 72 MEDLINE on STN DUPLICATE 10
- A soxA gene, encoding a diheme cytochrome c, and a sox locus, essential TТ for sulfur oxidation in a new sulfur lithotrophic bacterium.
- SO Journal of bacteriology, (2000 Aug) 182 (15) 4278-87. Journal code: 2985120R. ISSN: 0021-9193.
- ΑU Mukhopadhyaya P N; Deb C; Lahiri C; Roy P
- AN 2000396412 MEDLINE
- L61 ANSWER 26 OF 72 MEDLINE on STN DUPLICATE 11
- Functionality of purified sigma(N) (sigma(54)) and a NifA-like protein ΤI from the hyperthermophile Aquifex aeolicus.
- Journal of bacteriology, (2000 Mar) 182 (6) 1616-23. SO Journal code: 2985120R. ISSN: 0021-9193.
- ΑU Studholme D J; Wigneshwereraraj S R; Gallegos M T; Buck M
- 2000158878 MEDLINE AN
- L61 ANSWER 27 OF 72 MEDLINE on STN DUPLICATE 12
- TICloning and characterization of thermostable endoglucanase (Cel8Y) from the hyperthermophilic Aquifex aeolicus VF5.
- Biochemical and biophysical research communications, (2000 Dec 20) 279 (2) SO
 - Journal code: 0372516. ISSN: 0006-291X.
- ΑU Kim J O; Park S R; Lim W J; Ryu S K; Kim M K; An C L; Cho S J; Park Y W; Kim J H; Yun H D

- L61 ANSWER 28 OF 72 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 13
- Phylogenetic depth of the bacterial genera Aquifex and Thermotoga inferred from analysis of ribosomal protein, elongation factor, and RNA polymerase subunit sequences.
- SO Journal of Molecular Evolution, (April, 2000) Vol. 50, No. 4, pp. 366-380. print.

 CODEN: JMEVAU. ISSN: 0022-2844.
- AU Bocchetta, Maurizio; Gribaldo, Simonetta; Sanangelantoni, Annamaria; Cammarano, Piero [Reprint author]
- AN 2000:241251 BIOSIS
- L61 ANSWER 29 OF 72 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Hyperthemostable AONS: The first committed enzyme in E. coli biotin biosynthesis has a tropical relative.
- SO Biochemical Society Transactions, (October, 2000) Vol. 28, No. 5, pp. A316. print.

 Meeting Info.: 18th International Congress of Biochemistry and Molecular Biology. Birmingham, UK. July 16-20, 2000. International Union of Biochemistry and Molecular Biology; Federation of European Biochemical Societies; Biochemical Society.

 CODEN: BCSTB5. ISSN: 0300-5127.
- AU Mullan, Lisa J. [Reprint author]; Webster, Scott P. [Reprint author]; Alexeev, Dmitriy G. [Reprint author]; Baxter, Robert L. [Reprint author]
- AN 2001:102325 BIOSIS
- L61 ANSWER 30 OF 72 HCAPLUS COPYRIGHT 2005 ACS on STN
- TI Polypurine.polypyrimidine sequences in complete bacterial genomes: preference for polypurines in protein-coding regions
- SO Gene (2000), 242(1-2), 275-283 CODEN: GENED6; ISSN: 0378-1119
- AU Raghavan, Sowmya; Hariharan, Ramesh; Brahmachari, Samir K.
- AN 2000:154073 HCAPLUS
- DN 132:304159
- L61 ANSWER 31 OF 72 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
- TI Extremely thermostable elongation factor G from Aquifex aeolicus: Cloning, expression, purification, and characterization in a heterologous translation system.
- SO Protein Expression and Purification, (April, 2000) Vol. 18, No. 3, pp. 257-261. print.

 CODEN: PEXPEJ. ISSN: 1046-5928.
- AU Martemyanov, Kirill A.; Liljas, Anders; Gudkov, Anatoly T. [Reprint author]
- AN 2000:233620 BIOSIS
- L61 ANSWER 32 OF 72 LIFESCI COPYRIGHT 2005 CSA on STN DUPLICATE 14
- TI Reverse gyrase from hyperthermophiles: Probable transfer of a thermoadaptation trait from Archaea to Bacteria
- SO Trends in Genetics [Trends Genet.], (20000400) vol. 16, no. 4, pp. 152-156.
 ISSN: 0168-9525.
- AU Forterre, P.; De La Tour, C.B.; Philippe, H.; Duguet, M.
- AN 2000:76087 LIFESCI
- L61 ANSWER 33 OF 72 MEDLINE on STN DUPLICATE 15
- TI The alternative sigma factor sigma(28) of the extreme thermophile Aquifex aeolicus restores motility to an Escherichia coli fliA mutant.
- SO FEMS microbiology letters, (2000 Oct 1) 191 (1) 103-7. Journal code: 7705721. ISSN: 0378-1097.

- AU Studholme D J; Buck M
- AN 2001045810 MEDLINE
- L61 ANSWER 34 OF 72 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 16
- TI Characterization of a solvent resistant and thermostable aminopeptidase from the hyperthermophillic bacterium, Aquifex aeolicus
- SO ENZYME AND MICROBIAL TECHNOLOGY, (JUL 2000) Vol. 27, No. 1-2, pp. 83-88. Publisher: ELSEVIER SCIENCE INC, 655 AVENUE OF THE AMERICAS, NEW YORK, NY 10010.

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- AU Khan A R; Nirasawa S; Kaneko S; Shimonishi T; Hayashi K (Reprint)
- AN 2000:506413 SCISEARCH
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FULL ESTIMATED COST

SINCE FILE TOTAL ENTRY SESSION 104.41 104.62

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